

SP5824 Series

4G LTE Motorcycle and Powersports GPS Tracker

The Skypatrol SP5824 4G LTE series of GPS tracking devices are compact, water resistant and perfectly suited to installation in motorcycles and other powersport vehicles including ATV's, jet-skis, snowmobiles and boats. The electronics are designed for low power consumption so it preserves the powersport vehicle's battery. The SP5824 devices also include an internal backup battery and a GSM jamming detection system. With multiple I/O it also has distance traveled, change course, time and event and I/O upload modes options. This user-friendly design is easy to install and operate.

FEATURES

- IP67 Waterproof
- 4G LTE
- Zero Power Consumption
- OTA Control
- Scheduled Reports
- Geofence Management
- Crash Detection
- Driving Behavior Monitoring
- Up to 10,000 Buffer Messages
- Multiple I/O Interfaces
- CE/FCC/Verizon/Sprint Certicates
- Firmware Updates Over the Air (FOTA)
- HDOP/VDOP for Precise Location
- Internal Back-up Battery 700 mAh

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SP5824 Series

Specifications



GENERAL

Communication Modes	EGPRS/LTE and TCP/UDP/SMS
Location Technology	GNSS
Operating Voltage	12 to 32 Volt Vehicle Systems

GPS

GNSS	GNSS receiver u-blox All-in-One
Accuracy	Autonomous: < 2.5m
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
TTFF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

CELLULAR

Data Support	SMS, TCP, UDP
LTE Operating Band	Cat M1/Cat NB1: LTE-FDD: B1/ B2/ B3/ B4/ B5/ B8/ B12/ B13/ B18/ B19/ B20/ B25/ B28 LTE-TDD: B39 (for Cat.M1 only)
LTE Data Transmission	eMTC (DL) 375 Kbps eMTC (UL) 375 Kbps NB1 (DL) 32 Kbps ,NB1 (UL) 70 Kbps
EGPRS Frequency	850 / 900 / 1800 / 1900 MHz
Data Transmission	GPRS multi-slot class 33 (33 by default) EDGE multi-slot class 33 (33 by default)
SIM Card	1.8/3.3 V

INPUT/OUTPUT

Digital Input	2 digital inputs including 1 positive trigger input for ignition detection 1 negative trigger input for normal use
Digital Output	1 digital output, open drain, 150 mA max drive current
Programmable Input	1 digital output with internal latch circuit, open drain, 150 mA max drive current

INPUT/OUTPUT

Serial Port	1 RS232 serial port used for external devices
Status LEDs	Power, GPS, Cellular
Latched Digital O/P	One Digital Output With Internal Latch Circuit, Open Drain, 150mA Drive Current Max

ELECTRICAL

Voltage	8-32V DC
Battery	LiPo 700mAh
Power Consumption	Zero Power Consumption when Ignition is Off

PHYSICALS

Dimension	102 x 46 x 20.5 mm
Weight	110 g (3.88oz)
IP Rating	IP67 Compliant

ENVIRONMENTAL

Temperature	-30ºC To+80ºC -40ºC To +80ºC (For storage)

CONNECTORS, SIM CARD ACCESS

Connector Type	8 Pin Molex
Power Switch	Built-in
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal

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